## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 10 February 2005 (10.02.2005)

**PCT** 

## (10) International Publication Number WO 2005/011700 A1

(51) International Patent Classification<sup>7</sup>: **A61K 31/4965**, 31/505, 31/44, A01N 43/54, 43/42, C07D 401/00, 403/00, 405/00, 409/00, 411/00, 413/00

(21) International Application Number:

PCT/US2004/024340

(22) International Filing Date: 28 July 2004 (28.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/490,851	29 July 2003 (29.07.2003)	US
60/491,055	30 July 2003 (30.07.2003)	US
60/493,101	6 August 2003 (06.08.2003)	US
60/494,752	13 August 2003 (13.08.2003)	US
60/507,014	29 September 2003 (29.09.2003)	US
60/530,847	18 December 2003 (18.12.2003)	US

(71) Applicant (for all designated States except US): SMITHKLINE BEECHAM CORPORATION [US/US]; One Franklin Plaza, P.O. Box 7929, Philadelphia, PA 19101 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HEERDING, Dirk, A. [NL/US]; 1250 South Collegeville Road, Collegeville, PA 19426 (US). CLARK, Tammy, J. [US/US]; 1250 South Collegeville Road, Collegeville, PA 19426 (US). DREWRY, David, H. [US/US]; Five Moore Drive, Research Triangle Park, NC 27709 (US). LEBER, Jack, Dale [US/US]; 1250 South Collegeville Road, Collegeville, PA 19426 (US). SAFONOV, Igor [US/US]; 1250 South

Collegeville Road, Collegeville, PA 19426 (US). YA-MASHITA, Dennis, S. [US/US]; 1250 South Collegeville Road, Collegeville, PA 19426 (US).

- (74) Agents: DUSTMAN, Wayne, J. et al.; Glaxosmithkline, Corporate Intellectual Property UW2220, 709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406-0939 (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INHIBITORS OF Akt ACTIVITY

(57) Abstract: Invented are novel 1 H-imidazo[4,5-c]pyridin-2-yI compounds, the use of such compounds as inhibitors of protein kinase B activity and in the treatment of cancer and arthritis.

